ATTORNEY DOCKET NO. 14028.0287

SEQUENCE LISTING

<110> Neville, David M.
~~Knechtle, Stuart~~
~~Thomas, Judith M.~~
Thompson, Jerry T.
~~Hu, Huaizhong~~
~~Ma, Shenglin~~

<120> IMMUNOTOXINS AND METHODS OF INDUCING
IMMUNE TOLERANCE

<130> 14028.0287

<140> US 09/380,484
<141> 1999-12-06

<150> PCT/US98/04303
<151> 1998-03-05

<150> 60/039,987
<151> 1997-03-05

<160> 16

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 3476
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
synthetic construct

<223> Description of Artificial Sequence:/note =
synthetic

<400> 1
```
aaaaaaaagc ccgccgaagc gggctttatt accaagcgaa gcgccattcg ccattcaggc      60
tgcgcaactg ttgggaaggg cgatcggtgc gggcctcttc gctattacgc cagctggcga     120
aagggggatg tgctgcaagg cgattaagtt gggtaacgcc agggttttcc cagtcacgac     180
gttgtaaaac gacggccagt ccgtaatacg actcacttaa ggccttgact agagggaaga     240
tctggatgca ttcgcgcgca cgtacggtct cgaggaattc ctgcaggata tcgtggatcc     300
aagcttcacc atgggagacg tcaccggttc tagaacctag ggagctctgg tacccactag     360
tgagtcgtat tacgtaaccg caggtaaaag gcatattttt cgcgtgtcat ggctagtaaa     420
taacaccggt gtcatttaga gtcagggaaa gacaatgaaa aacgaagaaa gccaccgggc     480
ggcaacccga tgactttcgc ttatcaccca gcacacacct gggagaaatc acggtcatga     540
gtttacagac tcatgcgcag aatgcgcaca ctaaaacacc tacccgcgtc gagcgcgacc     600
gtggtggact ggacaacacc ccagcatctg ccagtgaccg cgacctttta cgcgatcatc     660
taggccgcga tgtactccac ggttcagtca cacgagactt aaaaaggcc tatcgacgca     720
acgctgacgg cacgaactcg ccgcgtatgt atcgcttcga gactgatgct ttaggacggt     780
```

```
gcgagtacgc catgctcacc accaagcagt acgccgccgt cctggtcgta gacgttgacc    840
aagtaggtac cgcaggcggt gaccccgcag acttaaaccc gtacgtccgc gacgtggtgc    900
gctcactgat tactcatagc gtcgggccag cctgggtggg tattaaccca actaacggca    960
aagcccagtt catatggctt attgaccctg tctacgctga ccgtaacggt aaatctgcgc   1020
agatgaagct tcttgcagca accacgcgtg tgctgggtga gcttttagac catgacccgc   1080
acttttccca ccgctttagc cgcaacccgt tctacacagg caaagcccct accgcttatc   1140
gttggtatag gcagcacaac cgggtgatgc gccttggaga cttgataaag caggtaaggg   1200
atatggcagg acacgaccag ttcaacccca ccccacgcca gcaattcagc tctggccgcg   1260
aacttatcaa cgcggtcaag acccgccgtg aagaagccca agcattcaaa gcactcgccc   1320
aggacgtaga cgcggaaatc gccggtggtc tcgaccagta tgacccggaa cttatcgacg   1380
gtgtgcgtgt gctctggatt gtccaaggaa ccgcagcacg cgacgaaaca gcctttagac   1440
atgcgcttaa gactggccac cgcttgcgcc agcaaggcca acgcctgaca gacgcagcaa   1500
tcatcgacgc ctatgagcac gcctacaacg tcgcacacac ccacggcggt gcaggccgcg   1560
acaacgagat gccacccatg cgcgaccgcc aaaccatggc aaggcgcgtg cgcgggtatg   1620
tcgcccaatc caagagcgag acctacagcg gctctaacgc accaggtaaa gccaccagca   1680
gcgagcggaa agccttggcc acgatgggac gcagaggcgg acaaaaagcc gcacaacgct   1740
ggaaaacaga ccccgagggc aaatatgcgc aagcacaaag gtcgaagctt gaaaagacgc   1800
accgtaagaa aaaggctcaa ggacgatcta cgaagtcccg tattagccaa atggtgaacg   1860
atcagtattt ccagacaggg acagttccca cgtgggctga aataggggca gaggtaggag   1920
tctctcgcgc cacggttgct aggcatgtcg cggagctaaa gaagagcggt gactatccgg   1980
acgtttaagg ggtctcatac cgtaagcaat atacggttcc cctgccgtta ggcagttaga   2040
taaaacctca cttgaagaaa accttgaggg gcagggcagc ttatatgctt caaagcatga   2100
cttcctctgt tctcctagac ctcgcaaccc tccgccataa cctcaccgaa ttgtgggcca   2160
tcgccctgat agacggtttt tcgccctttg acgttggagt ccacgttctt taatagtgga   2220
ctcttgttcc aaactggaac aacactcaac cctatctcgg gctattcttt tgatttataa   2280
gggatttttgc cgatttcggc ctattggtta aaaaatgagc tgatttaaca aaaatttaac   2340
gcgaatttta acaaaatatt aacgtttaca atttaaatat ttgcttatac aatcttcctg   2400
tttttggggc ttttctgatt atcaaccggg gtaaatcaat ctaaagtata tatgagtaaa   2460
cttggtctga cagttaccaa tgcttaatca gtgaggcacc tatctcagcg atctgtctat   2520
ttcgttcatc catagttgcc tgactccccg tcgtgtagat aactacgata cgggagggct   2580
taccatctgg ccccagtgct gcaatgatac cgcgagaccc acgctcaccg gctccagatt   2640
tatcagcaat aaaccagcca gccggaaggg ccgagcgcag aagtggtcct gcaactttat   2700
ccgcctccat ccagtctatt aattgttgcc gggaagctag agtaagtagt tcgccagtta   2760
atagtttgcg caacgttgtt gccattgcta caggcatcgt ggtgtcacgc tcgtcgtttg   2820
gtatggcttc attcagctcc ggttcccaac gatcaaggcg agttacatga tcccccatgt   2880
tgtgcaaaaa agcggttagc tccttcggtc ctccgatcgt tgtcagaagt aagttggccg   2940
cagtgttatc actcatggtt atggcagcac tgcataattc tcttactgtc atgccatccg   3000
taagatgctt ttctgtgact ggtgagtact caaccaagtc attctgagaa tagtgtatgc   3060
ggcgaccgag ttgctcttgc ccggcgtcaa cacgggataa taccgcgcca catagcagaa   3120
ctttaaaagt gctcatcatt ggagaacgtt cttcggggcg aaaactctca aggatcttac   3180
cgctgttgag atccagttcg atgtaaccca ctcgtgcacc caactgatct tcagcatctt   3240
ttactttcac cagcgtttct gggtgagcaa aaacaggaag gcaaaatgcc gcaaaaaagg   3300
gaataagggc gacacggaaa tgttgaatac tcatactctt ccttttcaa tattattgaa   3360
gcatttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt tagaaaaata   3420
aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc acctgacgta gttaac        3476
```

<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

```
<400> 2
gacatccaga tgacccagac c                                              21


<210> 3
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

<400> 3
cctcccgagc caccgcctcc gctgcctccg cctccttta tctccagctt gtgtcgcc     58


<210> 4
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

<400> 4
gcagcggagg cggtggctcg ggaggggag gctcggaggt gcagcttcag cagtct        56


<210> 5
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

<400> 5
gcaagcttga agactgtgag agtggtgcct tg                                  32


<210> 6
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

<400> 6
gtctcttcaa agcttattgc ctgagctgcc tcccaaa                             37


<210> 7
<211> 32
<212> DNA
```

```
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

<400> 7
gcatctagat cagtagcagg tgccagctgt gt                                      32


<210> 8
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

<400> 8
cggtcgacac catggagaca gacacactcc tgttatgggt actgctgctc tgggttcca       59


<210> 9
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

<400> 9
gtactgctgc tctgggttcc aggttccact ggggacatcc agatgaccca g               51


<210> 10
<211> 67
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

<400> 10
atgaaatacc tattgcctac ggcagccgct ggattgttat tactgcgctg cccaaccagc       60
gatggcc                                                                 67


<210> 11
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct
```

```
<400> 11
atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgctgc ccaa          54


<210> 12
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
     synthetic construct

<400> 12
ggattgttat tactcgctgc ccaacaagcg atggccggcg ctgatgatgt tgttgattc     59


<210> 13
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
     synthetic construct

<400> 13
cggtactata aaactctttc caatcatcgt c                                   31


<210> 14
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
     synthetic construct

<400> 14
gacgatgatt ggaaagagtt ttatagtacc g                                   31


<210> 15
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
     synthetic construct

<221> misc_feature
<222> (0)...(0)
<223> N = c or a

<400> 15
agatctgtcg ntcatcagct tttgatttca aaaaatagcg                          40
```

127

```
<210> 16
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
      synthetic construct

<400> 16
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1               5                   10                  15
```